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APPLICATION NO.	FILING DATE .	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/840,434	04/23/2001	John A. Hummel	DKT 99083	4174	
7	590 05/22/2002				
Borg Warner, Inc. Attn: Patent Docket Administrator 3001 W. Big Beaver Road, Suite 200 P.O. Box 5060			EXAMINER		
			STEFANO	STEFANON, JUSTIN	
Troy, MI 48007-5060			ART UNIT	PAPER NUMBER	
0			3682		
			DATE MAILED: 05/22/2002	DATE MAILED: 05/22/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
		09/840,434	HUMMEL ET AL.	V			
	Office Action Summary	Examiner	Art Unit	·			
		Justin Stefanon	3682				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - External control	MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.13 results (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may within the statutory minimum of t will apply and will expire SIX (6) M cause the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this communication ABANDONED (35 U.S.C. § 133).	on.			
1)	Responsive to communication(s) filed on						
2a)∏		— · is action is non-final.					
3)	,	ince except for formal m		is			
Disposit	ion of Claims	•	·				
4)⊠	Claim(s) <u>1-9</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdray	vn from consideration.					
·	Claim(s) is/are allowed.						
	☑ Claim(s) <u>1-9</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
•	Claim(s) are subject to restriction and/or	election requirement.					
	ion Papers						
	The specification is objected to by the Examiner						
10)⊠	The drawing(s) filed on 23 April 2001 is/are: a)		•				
44)	Applicant may not request that any objection to the						
11)	The proposed drawing correction filed on		disapproved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.							
	under 35 U.S.C. §§ 119 and 120	arrimer.					
•	Acknowledgment is made of a claim for foreign	priority under 25 H S C	\$ 110(a) (d) or (f)				
,	☐ All b)☐ Some * c)☐ None of:	priority under 33 0.3.0	. 3 119(a)-(u) or (i).				
a)	·_	s have been received					
	1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No.						
	 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
* (application from the International Bur See the attached detailed Office action for a list of	eau (PCT Rule 17.2(a))					
14) 🗌 🖊	Acknowledgment is made of a claim for domestic	priority under 35 U.S.C	C. § 119(e) (to a provisional applica	tion).			
	a) The translation of the foreign language pro- Acknowledgment is made of a claim for domesti	• •					
Attachmer	-	. •					
2) 🔲 Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u> .	5) Notice of	v Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)				

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Art Unit: 3682

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1 and 5 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claim 1 recites a surface extending "a distance substantially the length of the link" and claim 5 recites a surface extending "a distance substantially equal to a length of the link plates", which does not describe the subject matter as disclosed and shown in the figures.
- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4 recites the surface extending "a distance that approximates the distance from a center of a member joining the link to one adjacent row of links to a center of a member joining the link to another adjacent row of links", which does describe the disclosed subject matter but does not agree with the description of claim 1, from which claim 4 depends.

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Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-6 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by US Pat No 5,989,140 to Ichikawa et al.

Ichikawa et al. disclose a silent chain and sprocket assembly wherein the teeth 6a of the back-side sprocket 6 are low profile protrusions extending outwardly from the sprocket and the links of the inner and outer link rows form a surface, extending substantially the distance between the joining members, that overlies and conforms closely to the sprocket protrusions at a back-side of the chain. The links have a surface that defines two teeth extending from the link at a front-side of the chain. The low profile protrusions 6a are formed by two sprocket surfaces, the sides of the teeth, that meet at the protrusion and extend oppositely from each other a distance that is approximately the length of the back-side surface of the link plates.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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8. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ichikawa et al. in view of US Pat No 270,723 to Aydelott.

Ichikawa et al. disclose the subject matter of claim 6, as discussed above, but does not disclose generally flat sprocket surfaces that extend from the sprocket near their first and second ends. Aydelott discloses a sprocket with generally flat sprocket surfaces that extend from the sprocket near their first and second ends. It would have been obvious to one skilled in the art at the time the invention was made to provide the assembly of Ichikawa with the back-side sprocket of Aydelott, as it is old in the art to utilize a sprocket with generally flat sprocket surfaces that extend from the sprocket near their first and second ends in a chain and sprocket assembly.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art documents disclose various back-side sprocket chain assemblies wherein the back-side sprocket teeth are low profile protrusions.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin Stefanon whose telephone number is 703-305-1945. The examiner can normally be reached on Monday - Friday 6 - 3:30, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Bucci can be reached on 703-308-3668. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7687 for regular communications and 703-305-7687 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

1113.

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